BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Improvements to Roads and Drains at Ramachandrapura, Patel Pillegowda Layout and Surrounding area in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division.

Estimated Cost : Rs. 70.00 Lakhs

Head of Account : P-3601

Job Code: 010-20-000034

Name of Agency: Sri Aswathnarayana, # 38, Chanappa Layout, Sharadhamabanagar, Jalahalli Village, Bangalore – 13.

Work order No: BBMP/EE/BTP/WO/228/2019-20 D: 17.03.2020.

Measurements Recarded on :

Sl No.	Description	No.	L	B	D	Qty	Rate	Amount
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.						Cum	
	Qty as per Premeasurement Recorded vide E-Bill Page No. 1 to 2 is					**811.40**	256.05	**207759.00**
2	Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.						Cum	
	Qty as per Premeasurement Recorded vide E-Bill Page No. 3 is					**120.23**	5677.99	**682665.00**
3	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.)						Cum	
	Bottom Concrete							
	Patel Pillegowda layout 2nd Main Road E/S	1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	8.00	1.00	0.15	1.20		
	Patel Pillegowda layout 2nd Main Road W/S	1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	8.10	1.00	0.15	1.22		
	Chamundeswari Layout 6th Main Road	1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		

Assistant Executive Engineer Vidyaranyapura Sub Divi BBMP, Bangalore-9

Suresh N K AE W10

Assistant Engineer

Assistant Executive Engineer

Sl No.	Description	No.	L	B	D	Qty	Rate	Amount
		1	30.00	1.00	0.15	4.50		
		1	29.50	1.00	0.15	4.43		
	Nanjappa Layout 2nd Cross R/S	1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	15.20	1.00	0.15	2.28		
		1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	14.90	1.00	0.15	2.24		
	Cross Road	1	30.00	1.00	0.15	4.50		
		1	16.50	1.00	0.15	2.48		
	Culverts							
	R. Chandrappa Layout	1	5.50	1.80	0.20	1.98		
		1	5.70	1.80	0.20	2.05		
	3rd Cross	1	5.40	1.80	0.20	1.94		
	4th Cross	1	5.50	1.80	0.20	1.98		
	5th Cross	1	5.60	1.80	0.20	2.02		
	Side Wall							
	Patel Pillegowda layout 2nd Main Road E/S	2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	8.00	0.15	0.75	1.80		
	Patel Pillegowda layout 2nd Main Road W/S	2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	8.10	0.15	0.75	1.82		
	Chamundeswari Layout 6th Main Road	2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	29.50	0.15	0.75	6.64		
	Nanjappa Layout 2nd Cross R/S	2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	15.20	0.15	0.75	3.42		
		2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	14.90	0.15	0.75	3.35		
	Cross Road	2	30.00	0.15	0.75	6.75		
		2	16.50	0.15	0.75	3.71		
		1	30.00	0.15	0.75	3.38		
		1	10.00	0.15	0.75	1.13		
	Culverts							
	R. Chandrappa Layout	2	5.50	0.30	1.00	3.30		
		2	5.70	0.30	1.00	3.42		
	3rd Cross	2	5.40	0.30	1.00	3.24		
	4th Cross	2	5.50	0.30	1.00	3.30		
	5th Cross	2	5.60	0.30	1.00	3.36		
						313.17		
						313.16	6058.59	**1897308.00**

Assistant Engineer

Assistant Executive Engineer

S.	Description	No.	L	B	D	Qty	Rate	Amount
4	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. **TMT bars Fe 500**						Tonne	
	Qty as per Premeasurement Recorded vide E-Bill Page No. 4 is					**18.79**	78977.64	**1483990.00**
5	Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications.						Sqm	
	Qty as per Premeasurement Recorded vide E-Bill Page No. 5 is					**1903.80**	398.42	**758512.00**
6	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete						Sqm	
	For Covering Slab							
	Patel Pillegowda layout 2nd Main Road E/S	1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	8.00		0.90	7.20		
	Patel Pillegowda layout 2nd Main Road W/S	1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	30.00		0.90	27.00		
		1	8.10		0.90	7.29		
		1	31.00		0.90	27.90		
		1	30.00		0.90	27.00		
		1	15.00		0.90	13.50		
			452.10			**406.89**		
						406.80	779.03	**316909.00**
7	Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded)						Mtrs	
		754	3.00			2260.50		
						2260.00	64.55	**145883.00**
8	Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.						Sqm	
	Covering Slab Ramp							
	Patel Pillegowda layout 2nd Main Road E/S	1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	8.00	0.30	0.10	0.24		
	Patel Pillegowda layout 2nd Main Road W/S	1	30.00	0.30	0.10	0.90		

Assistant Executive Engineer
Vijayanagar Sub Division
BBMP, Bangalore-9

Assistant Engineer

Assistant Executive Engineer

Sl No.	Description	No.	L	B	D	Qty	Rate	Amount
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	8.10	0.30	0.10	0.24		
	Chamundeswari Layout 6th Main Road	1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	29.50	0.30	0.10	0.89		
	Nanjappa Layout 2nd Cross R/S	1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	15.20	0.30	0.10	0.46		
		1	30.00	0.30	0.10	0.90		
		1	30.00	0.30	0.10	0.90		
		1	14.90	0.30	0.10	0.45		
	Cross Road	1	30.00	0.30	0.10	0.90		
		1	16.50	0.30	0.10	0.50		
						22.57		
						22.56	6034.11	**136130.00**
9	Providing **precast slab of 100mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge.						Sqm	
	Chamundeswari Layout 6th Main Road	1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	29.50	0.90		26.55		
	Nanjappa Layout 2nd Cross R/S	1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	15.20	0.90		13.68		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	14.90	0.90		13.41		
						296.64		
						286.20	2453.62	**702226.00**
10	Providing **precast slab of 250mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge.						Sqm	
	R. Chandrappa Layout	9	1.50	0.60		8.10		
		9	1.50	0.60		8.10		
	3rd Cross	9	1.50	0.60		8.10		
	4th Cross	9	1.50	0.60		8.10		
	5th Cross	9	1.50	0.60		8.10		
						40.50		
						40.50	5688.36	**230379.00**
	Sub Total							**6561761.00**
	GST 12%							**787411.00**
							Total	**7349172.00**

Rupees Seventy Three Lakh(s) Forty Nine Thousand One Hundred Seventy Two Only

Assistant Engineer

Assistant Executive Engineer